Technology Transfer

Making the Best Possible Use of National Scientific and Technical Capabilities

U.S. Army Space and Missile Defense Command
Space and Missile Defense Technical Center
Systems Directorate

The Space and Missile Defense Command Office of Research and Technology Applications (ORTA) manages the technology transfer program. ORTA acts as a focal point and liaison to government, industry and academia. It is also an "honest broker" within an SMDC integrated process team comprised of technical, legal, contractual, small business, and resource management representatives to determine the best solution for non-traditional agreements.

Changing Paradigm for Technology Transfer in DoD

Traditionally, technology transfer from DoD to the non-DoD community was not considered a high priority. Now, technology transfer and partnering is an integral part of each laboratory's mission. While DoD technology was once considered superior to foreign and industrial technology, civilian technology has surpassed it in many critical areas and commercial-off-the-shelf use/spin-ons are encouraged as part of a new acquisition strategy. Originally, technology transfer focused on spin-off transfers to the non-DoD community. Greater attention is now given to spin-on (technology transfers into DoD), dual-use (technology developed for more than one DoD purpose), and side-spin (technology transfer between DoD agencies).

Some Mechanisms for Technology Transfer/Exploitation

Cooperative Research and Development Agreements (CRADAs)
Other Transactions
Conferences, Symposia, Exhibits
Patent Licensing Agreements
Technical Assistance and/or Assessments
Contracts
Cooperative Agreements
Education Partnerships
Personnel Exchange
Technical Data Exchange
Grants
Partnerships with Non-Profit Agencies
Presentation of Technical Papers
Sale of Testing Services
Federal Laboratory Consortium (FLC) Network

Benefits of CRADAs

CRADAs provide a means for open discussions between industry and DoD, advancing research to points that would have taken longer to achieve independently. CRADAs sometimes lead to new programs and/or contracts, and can result in follow-on CRADAs, enhancing trust and partnering. They provide access to government/military facilities that are not commercially available. CRADAs often result in new, improved or more cost-effective products and/or processes.

Other Transactions (OTs) - New Way of Doing Business with the Government

Potential uses include innovative business agreements (non-Federal Acquisition Regulations (FAR)) with high-tech companies that would not otherwise contract with DoD. OT for Prototypes are new and flexible acquisition instruments that generally are not subject to the laws and regulations governing rigid intellectual property, cost accounting, and auditing requirements of FAR contracts. They are intended to carry out "prototype projects" (e.g., prototypes of weapon systems, subsystems, components, or technology) directly relevant to the proposed development or acquisition of DoD weapons or weapon systems.

Command Assets Available for Use

Patents/Inventions available for licensing:
Located on SMDC website, http://www.smdc.army.mil.

Equipment:
Mid-Infrared Advanced Chemical (MIRACL) Laser (NM)
High Altitude Observatory (HALO and HALO II) (OK)
Airborne Surveillance Testbed (AST) (WA)
CO2 LADAR (Field LADAR (FL), Multi-Folder LADAR (AL))
Data Collection and Optical Signatures Code (AL)

Facilities:
Reagan Test Site (RTS) (Kwajalein Atoll, Marshall Islands)
High Energy Laser Test Facility (NM)
Advanced Measurement Optical Range (AL)
Optical Data Analysis (AL)
Missile Defense Data Center (MDDC) (AL)
Advanced Research Center (ARC) (AL)
Synthetic Battlefield Center (SBC) (AL)
Missile Defense (MD) Lab (AL)
Simulation Center (SC) (AL)
Hardware and Software Integration Center (HSIC) (AL)
Ground-Based Missile Defense (GMD) Users Lab (AL)
MD Futures Lab (AL)
Portable Optical Sensor Testbed (POST) (AL)

Capabilities:
Acoustic, Space, Directed Energy, Sensor Technology Development, Experimentation, Test platforms, Data Analysis and Exploitation, Information Superiority, Laser, Exercise Support, Modeling and Simulation, Operational Analyses and Support, Interoperability, Survivability, Safety, Systems Analyses, Space Support Operations, Commercial Programs

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